



NR. 656 S. 2/9



Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference I 42312PC	FOR FURTHER ACTION	See Notific Preliminary	estion of Transmittal of International Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/n	ng date (day/month/year) Priority date (day/month/year)						
PCT/EP2003/006140	11 June 2003 (11.06	.2003)	12 June 2002 (12.06,2002)					
International Patent Classification (IPC) or national classification and IPC A61K 47/10								
Applicant IFAC GMBH & CO. KG INSTITUT FÜR ANGEWANDTE COLLOIDTECHNOLOGIE								
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of6 sheets, including this cover sheet.								
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a tot	al of 4 sheets.							
3. This report contains indications relati	ng to the following items:	,						
I Basis of the report	I Basis of the report							
II Priority								
III Non-establishment of	opinion with regard to novelty,	inventive ster	and industrial applicability					
IV Lack of unity of inve	ntion							
v Reasoned statement u citations and explana	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents ci	VI Certain documents cited							
VII Certain defects in the	international application							
VIII Certain observations on the international application								
Date of submission of the demand Date of completion of this report								
09 January 2004 (09.01.2	. 004)	20 Au	gust 2004 (20.08.2004)					
Name and mailing address of the IPEA/EP		Authorized officer						
Facsimile No.	Telephor	Telephone No.						

Form PCT/IPEA/409 (cover sheet) (July 1998)

Best Available Copy

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/EP2003/006140

I. Basis of the report							
Γī	. Wit	h regard	to the elements of the international application:*				
ľ		the int	ernational application as originally filed				
	冈	the de	scription:				
	ت	pages	1-19	, as originally filed			
Ì		pages		, filed with the demand			
		pages	, filed with the letter of				
	\square	the cla					
				and in the Charles			
		pages pages	, as amended (together	, as originally filed			
l		pages		, filed with the demand			
		pages	I-14, filed with the letter of				
	_			11118-11-101 (1010012001)			
	Ш		wings:				
		pages		, as originally filed			
		pages		, filed with the demand			
	_	pages	, filed with the letter of				
		the seque	ance listing part of the description:				
		pages		, as originally filed			
		pages		, filed with the demand			
		pages	, filed with the letter of				
۷.	the i	nternation the elemen the lan	guage of a translation furnished for the purposes of international search (under Ruguage of publication of the international application (under Rule 48.3(b)). Iguage of the translation furnished for the purposes of international preliminary	which is:			
3.	With preli	minary contain filed to	to any nucleotide and/or amino acid sequence disclosed in the internation was carried out on the basis of the sequence listing; and in the international application in written form. Sether with the international application in computer readable form.	ional application, the international			
	뉘		ed subsequently to this Authority in written form.				
	片		cd subsequently to this Authority in computer readable form.				
		interna	atement that the subsequently furnished written sequence listing does not tional application as filed has been furnished.				
		The sta	atement that the information recorded in computer readable form is identical transhed.	to the written sequence listing has			
4.		The am	endments have resulted in the cancellation of:				
			the description, pages				
			the claims, Nos.				
			the drawings, sheets/fig				
5.		This rep	ort has been established as if (some of) the amendments had not been made, sinche disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ce they have been considered to go			
	Repla in thi and 7	s report	heets which have been furnished to the receiving Office in response to an invitati as "originally filed" and are not annexed to this report since they do not	ion under Article 14 are referred to contain amendmenss (Rule 70.16			
**	Any re	eplacenie	nt sheet containing such amendments must be referred to under item 1 and annex	ed to this report.			

NR. 656 S. 4/9

International application No. INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/EP2003/006140

IV. Lack of unity of invention						
1. In response to the invitation to restrict or pay additional fees the applicant has:						
restricted the claims.						
paid additional fees.						
paid additional fees under protest.						
neither restricted nor paid additional fees.						
2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.						
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is						
complied with.						
not complied with for the following reasons:						
}						
·						
 Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report: 						
all parts.						
the parts relating to claims Nos						

International application No. PCT/EP 03/06140

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	1-3	YES			
		Claims	4-14	NO			
	Inventive step (IS)	Claims		YES			
		Claims	1-14	NO NO			
l	Industrial applicability (IA)	Claims	1-14	YES			
		Claims		NO			

Citations and explanations 2.

See Supplemental Box .

International application No.
PCT/EP 03/06140

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV and V

1) The present application relates to the use of ether-alcohols as solvents, dissolving intermediaries or dispersing agents for organic compounds (claims 1 and 2) and as dispersing agents or as a continuous phase for pigment dispersions (claims 1, 3 and 14). Further, the application relates to the use of ether-alcohols in the preparation of ether-alcohol/polyol-in-oil emulsions (claims 4-13).

The application was restricted with respect to the definition of the ether-alcohols used, which now comprises only monoalkylated C_{1-3} polyethylene glycols (n = 7-15 or n = 7-50). The amendments are supported by the description as filed (in particular page 4).

2) Reference is made to the following documents:

D1: WO 01 01960 A

D2: US-A-4 113 649

D3: GB-A-2 242 686

D4: WO 95 24179 A

D5: WO 96 39119 A

D6: WO 95 03781 A

D7: GB-A-2 004 746

D8: WO 97 44049 A

D9: US-A-2 907 670

D10: JP 04 308216 A

D11: WO 00 49099 A

D12: WO 92 07627 A"

International application No. PCT/EP 03/06140

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV and V

3) Novelty

The restricted subject matter of the claims may be considered a novel selection over D1, D4, D5 and D9.

D2 describes polyethylene glycol diethers, not polyethylene glycol monoethers.

D3 and D6-D8 describe propoxylates, which fall outside the claimed subject matter.

D10 describes alkoxylated C_{4-18} ethoxylates, which fall outside the claimed subject matter.

D11 describes phosphates of alkoxylated ethoxylates as dispersing agents for pigments.

The claimed subject matter may therefore be considered novel over D1-D11.

However, D12 describes corresponding compounds that may be used as a base medium for defined protective agents, in which these protective agents are dissolved in the base medium or are present in some cases as a dispersion (cf. pages 14 and 17-19). In light of D12 the subject matter of claims 1-3 cannot be considered novel.

International application No. PCT/EP 03/06140

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV and V

4) Unity of invention

Use of the relevant compounds as solvents was already known from D12.

In relation to this prior art, any novel aspects of the use of ether-alcohols as solvents or dissolving intermediaries, for example, in the preparation of polyol/oil emulsions, lack a further basis of mutuality with the use of ether-alcohols in pigment dispersions in which active substances are not present in dissolved form.

5) Inventive step

The possibility of using monoalkoxylated ethoxylates (generically defined) as dissolving intermediaries was already known from D1, D4 and D5; their use in preparing oil emulsions has also been described (D4/D5).

Use of the specific compounds defined in the present application to similar purpose would therefore appear obvious to a person skilled in the art (claims 1-2, 4-13).

The argument that the relevant compounds are surprisingly suitable for the preparation of polyol/oil or polyol/oil/water emulsions is unconvincing, since (a) claims 1 and 2 do not

International application No. PCT/EP 03/06140

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV and V

relate to solutions intended for use in the preparation of such emulsions and (b) D4 and D5 directly indicate that such compounds may be incorporated in such emulsions (D4: pages 6 and 23-24; D5: page 6).

D9 further discloses that monoalkoxylated ethoxylates (generically defined) may also be used as dispersing agents for pigments. On the basis of the general teaching of D9, use of the claimed compounds to this purpose would be considered obvious by a person skilled in the art (claims 1, 3 and 14).

In this connection the definition as a sunscreen (claim 14) does not imply any particular features that would substantiate inventive step. Although D9 does not relate specifically to sunscreens, the teaching of D9 relates to pigment dispersions in general. Further features associated with sunscreens would seem routine to a person skilled in the art (cf. D11).